



FORM PTO-1449	SERIAL NO. 08/410,539	CASE NO. 7823/5
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE March 24, 1995	GROUP ART UNIT 1819
(use several sheets if necessary)		APPLICANT(S): Wheeler, Matthew B.

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
TN	A1	5,690,926*	11/25/1997	Hogan	42/43.1	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO
TN	A2	WO90/03432*	04/05/1990	PCT	005/06	
	A3	WO94/09803*	05/11/1994	PCT	037/00	
	A4	WO95/08625*	03/30/1995	PCT	015/00	
	A5	WO95/16770*	06/22/1995	PCT	005/00	
	A6	WO95/17500*	06/29/1995	PCT	005/00	
	A7	WO95/34636*	12/21/1995	PCT	005/06	
	A8	WO96/07732*	03/14/1996	PCT	005/06	
	A9	WO97/20035*	06/05/1997	PCT	005/06	
	A10	WO97/25412*	07/17/1997	PCT	005/00	
	A11	WO97/25413*	07/17/1997	PCT	005/06	
	A12	WO97/37009*	10/09/1997	PCT	015/00	
	A13	WO98/06834*	02/19/1998	PCT	015/00	
	A14	WO98/27214*	06/25/1998	PCT	015/63	
TN	A15	ZA9401930*	01/25/1995	South Africa	000/00	

* Abstract Only

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER <i>Cham</i>	DATE CONSIDERED <i>11/18/05</i>
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5/31/96

Sheet 1 of 7

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	08/410,539	7823/5
	FILING DATE March 24, 1995	GROUP ART UNIT 1632 1814
APPLICANT(S): Matthew B. Wheeler		

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
TNT BC	A1	5,175,383	12/1992	Leder et al.	800/2	02/17/89
TNT	A2	5,175,384	12/1992	Krimpenfort et al.	800/2	12/05/88
TNT	A3	5,175,385	12/1992	Wagner et al.	800/2	09/03/87

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO
TNT BC	A4	EP 0169672	01/1986	EPO		
	A5	WO 90/03432	04/1990	PCT		
	A6	WO 90/01541	02/1990	PCT		
	A7	WO 92/22646	12/1992	PCT		
	A8	GB 2,213,831	08/1989	UK		
TNT	A9	WO 94/03585	02/1994	PCT		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	A10	Axelrod, H.R., "Embryonic Stem Cell Lines Derived from Blastocysts by a Simplified Technique," <i>Developmental Biology</i> , 101:225-228 (1984).
	A11	Bazer, F.W., et al., "Fertilization, Cleavage and Implantation," in <i>Reproduction in Farm Animals</i> , 5th ed., ed. Hafez, E.S.E., Lea & Febiger, Philadelphia, PA (1987).
TNT	A12	Bearden, J.H., et al., "Gestation," <i>Applied Animal Reproduction</i> , pp. 85-98, Reston Publishing Company, Reston, VA (1980).

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	B. Wheeler		3/13/97

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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
INT	A13	Bishop, Jerry E., "Sheep-Cloning Method Holds Promise Of Fast Introduction of Livestock Traits, News Article, 1996.
	A14	Bleck, G.T., et al., "Single-Base Polymorphisms and DNA Sequence of the Porcine α -Lactalbumin 5' Flanking Region," <i>J. Dairy Sci.</i> , (Suppl.1):946 (1994).
	A15	Bradley, A., et al., "Formation of germline chimeras from embryo-derived teratocarcinoma cells lines," <i>Nature</i> , 309:255-256 (1984).
	A16	Brinster, et al., "Targeted correction of a major histocompatibility class II E α gene by DNA microinjected into mouse eggs," <i>Proc. Natl. Acad. Sci.</i> , 86:7087-7091 (1989).
	A17	Capecchi, Mario R., "The new mouse genetics: Altering the genome by gene targeting," <i>Trends in Genetics</i> , 5(3):70-76 (1989).
	A18	Clark, A.J., et al., "Germ line manipulation: applications in agriculture and biotechnology," <i>Transgenic Animals</i> , p. 250, Grosveld, et al., eds., Academic Press Limited (1992).
	A19	Clark, et al., "Expression of human anti-hemophilic factor IX in the milk of transgenic sheep," <i>Biotechnology</i> , Vol 7:487-492 (1989).
	A20	Cruz, Y.P., et al., "Origin of embryonic and extraembryonic cell lineages in mammalian embryos," in <i>Animal Application of Research in Mammalian Development</i> , eds. Pedersen, R.A., et al., Cold Spring Harbor Laboratory Press, Plainview, NY (1991).
	A21	Doetschman, T., et al., "Establishment of Hamster Blastocyst-Derived Embryonic Stem (ES) Cells," <i>Developmental Biology</i> , 127:224-227 (1988).
INT	A22	Ebert, K.M., et al., "Changes in Domestic Livestock through Genetic Engineering," in <i>Current Communications 4 Cell & Molecular Biology, Animal Applications of Research in Mammalian Development</i> , ed. Pederson et al., Cold Springs Harbor Laboratory Press, pp. 233-266 (1991).

EXAMINER <i>B. Challen</i> <i>Campbell</i>	DATE CONSIDERED <i>3/13/97</i> <i>11/18/05</i>
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TNT	A23	Evans, M.J., et al., "Establishment in culture of pluripotent cells from mouse embryos," <i>Nature</i> , 292:154-156 (1981).
	A24	Fajfar-Whetstone, C.F., et al., "Sex Determination of Porcine Pre-Implantation Embryos via Y-Chromosome Specific DNA Sequence," <i>Anim. Biotech.</i> , 4:183-193 (1993).
	A25	Flake, A.W., et al., "Transplantation of fetal hematopoietic stem cells in utero: the creation of hematopoietic chimeras," <i>Science</i> , vol. 233 (1986).
	A26	Frohman and Martin, "Cut, paste, and save: New approaches to altering specific genes in mice," <i>Cell</i> , 56:145-147 (1989).
	A27	Gossler, A., et al., "Transgenesis by means of blastocyst-derived embryonic stem cell lines," <i>Proc. Natl. Acad. Sci. USA</i> , 83:9065-9069 (1986).
	A28	Hagen, D.R., et al., <i>J. Anim. Sci.</i> , 69:1147-1150 (1991).
	A29	Handyside, A., et al., "Towards the Isolation of Embryonal Stem Cell Lines from the Sheep," <i>Roux's Arch. Developmental Biology</i> , 196:185-190 (1987).
	A30	Hasty, et al., "The length of homology required for gene targeting in embryonic stem cells," <i>Molecular and Cellular Biology</i> , 11(11):5586-5591 (1991).
	A31	Hogan, et al., "Isolation of Pluripotent Stem Cell Lines," <i>Cold Spring Harbor Laboratory - Manipulating the Mouse Embryo: A Laboratory Manual</i> , Section E:205-218 (1986).
	A32	Hooper, M.C., <i>Teratocarcinomas and Embryonic Stem Cells: A Practical Approach</i> , ed. Robertson, E.J., IRL Press, Ltd., Oxford, UK, 51-70 (1987).
TNT	A33	Jasin and Berg, "Homologous integration in mammalian cells without target gene selection," <i>Genes & Development</i> , 2:1353-1363 (1988).

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TNT ✓	A34	Jeannotte, et al., "Low level of Hox1.3 gene expression does not preclude the use of promoterless vectors to generate a targeted gene disruption," <i>Molecular and Cellular Biology</i> , 11(11):5578-5585.
	A35	Karg, H., "Manipulation of Lactation," in <i>Biotechnology for Livestock Production</i> , Plenum Press, New York and London, 19:181-206 (1989).
	A36	Karg, H., "Manipulation of Growth," in <i>Biotechnology for Livestock Production</i> , Plenum Press, New York and London, 18:159-180 (1989).
	A37	Kollias, G., et al., "The study of gene regulation in transgenic mice," <i>Transgenic Animals</i> , p. 92, Grosveld, et al., eds., Academic Press Limited (1992).
	A38	Lewin, H.A., et al., "Mapping Genes for Resistance to Infectious Diseases in Animals," in <i>Gene-Mapping Techniques and Applications</i> , Marcel Dekker, Inc., 13:283-304 (1991).
	A39	Mansour, et al., "Disruption of the proto-oncogene int-2 in mouse embryo-derived stem cells: A general strategy for targeting mutations to non-selectable genes," <i>Nature</i> , 336:348-352.
	A40	Martin, G.R., "Teratocarcinomas and Mammalian Embryogenesis," <i>Science</i> , 209:768-776 (1980).
	A41	Martin, G.R., "Isolation of a Pluripotent Cell Line from Early Mouse Embryos Cultured in Medium Conditioned by Teratocarcinoma Stem Cells," <i>Proc. Natl. Acad. Sci. USA</i> , 78(12):7634-7638 (1981).
	A42	Martin, P., et al., "Improvement of milk protein quality by gene technology," <i>Livestock Production Science</i> , 35:95-115 (1993).
	A43	McLaren, A., et al., <i>Nature</i> , 224, pp. 238-240 (1969).
TNT ✓	A44	Mintz, B., <i>Science</i> , 148, 1232-3 (1965).

EXAMINER <i>thayen</i> <i>B. Impell</i>	DATE CONSIDERED <i>11/18/05</i> <i>3/13/97</i>
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TNT	A45	Morgenstern and Land, <i>Nucleic Acids Res.</i> , 18:3587-3596 (1990).
	A46	Mortensen, et al., "Production of homozygous mutant ES cells with a single targeting construct," <i>Molecular and Cellular Biology</i> , 12(5):2391-2395 (1992).
	A47	Nichols, J., et al., "Establishment of germ-line-competent embryonic stem (ES) cells using differentiation inhibiting activity," <i>Development</i> , 110:1341-1348 (1990).
	A48	Notarianni, E., et al., "Maintenance and differentiation in culture of pluripotential embryonic cell lines from pig blastocysts," <i>J. Reprod. Fert., Suppl.</i> 41:51-56 (1990).
	A49	Papaioannou, V.E., et al., "Growth and differentiation of an embryonal carcinoma cell line (C145b)," <i>J. Embryol. exp. Morph.</i> , 54, pp. 277-295 (1979).
	A50	Phillips, R.W., et al., Models, pp. 437-440 in <i>Swine in Biomedical Research</i> , ed. Tumbleson, M.E., Vol. 1 (Plenum Press, New York), (1986).
	A51	Piedrahita, J.A., et al., "Influence of Feeder Layer Type on the Efficiency of Isolation of Porcine Embryo-Derived Cell Lines", <i>Theriogenology</i> , 34(5):865-877 (1990).
	A52	Piedrahita, J.A., et al., "On the Isolation of Embryonic Stem Cells: Comparative Behavior of Murine, Porcine and Ovine Embryos," <i>Theriogenology</i> , 34(5):879-901 (1990).
	A53	Polge, C., "Embryo transplantation and preservation," pp. 277-291 in <i>Control of Pig Reproduction</i> , Cole, D.J.A., et al., eds., Butterworth Scientific, London (1982).
	A54	Robertson, E., et al., "Germ-line transmission of genes introduced into cultured pluripotential cells by retroviral vector," <i>Nature</i> , 323:445-448 (1986).
TNT	A55	Robertson, E.J., "Pluripotential stem cell lines as a route into the mouse germ line," <i>Trends Genet.</i> , 2:9-13 (1987).

EXAMINER <i>B. Gumpert</i>	DATE CONSIDERED <i>1/18/95</i> <i>3/13/97</i>
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TNT BC	A56	Robertson, E.J., "Embryo-derived Stem Cell Lines," <i>Teratocarcinomas and Embryonic Stem Cells: A Practical Approach</i> , Chap. 4(4.4.2):92, ed. Robertson, E.J., IRL Press (1987).
	A57	Rohrer, G.A., Alexander, L.J., Keele, J.W., Smith, T.P., Beattie, C.W., "A Microsatellite Linkage Map of the Porcine Genome," <i>Genetics</i> , 136:231-245 (1994).
	A58	Rossant, J., et al., "The developmental potential of a euploid male teratocarcinoma cell line after blastocyst injection," <i>J. Embryol. exp. Morph.</i> , 70, 99-112 (1982).
	A59	Rossant, J., et al., "The relationship between embryonic, embryonal carcinoma and embryo-derived stem cells," <i>Cell Differentiation</i> , 15:155-161 (1984).
	A60	Rudnicki, M.A., et al., "Teratocarcinomas and Embryonic Stem Cells: A Practical Approach," <i>Methods and Induction of Differentiation in Embryonal Carcinoma Cell Lines</i> , pp. 19-49, ed. Robertson, IRL Press Ltd., Oxford, England (1987).
	A61	Schook, L.B., et al., "Mapping Genes for Growth and Development," 4:75-92, in <i>Growth of the Pig</i> , ed. Hollis, CAB International, Wallingford, UK (1993).
	A62	Sims, M.M., et al., "Production of Fetuses from Totipotent Cultured Bovine Inner Cell Mass Cells," <i>Theriogenology</i> , 39:313 (1993).
	A63	Smith, A.G., et al., "Buffalo Rat Liver Cells Produce a Diffusible Activity which Inhibits the Differentiation of Murine Embryonal Carcinomas and Embryonic Stem Cells," <i>Dev. Biol.</i> , 121:9 (1987).
TNT	A64	Stevens, L.C., "The development of transplantable teratocarcinomas from intratesticular grafts of pre- and post-implantation mouse embryos," <i>Dev. Biol.</i> , 21, 364-382 (1970).

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IMB	A65	Strojek, R.M., et al., "A Method for Cultivating Morphologically Undifferentiated Embryonic Stem Cells from Porcine Blastocysts," <i>Theriogenology</i> , 33(4):901-913 (1990).
	A66	Talbot, N.C., et al., "Alkaline phosphatase staining of pig and sheep epiblast cells in culture," <i>Molecular Reproduction and Development</i> , 36:139-147 (1993).
	A67	Thomas, et al., "High-fidelity gene targeting in embryonic stem cells by using sequence replacement vectors," <i>Molecular and Cellular Biology</i> , 12(7):2919-2923 (1992).
	A68	Thomas, K.R., et al., "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells," <i>Cell</i> , 51:503-512 (1987).
	A69	Wall, R.J., et al., "High-level synthesis of a heterologous milk protein in the mammary glands of transgenic swine," <i>Proc. Natl. Acad. Sci. USA</i> , 88, 1696-1700 (1991).
	A70	Ware, C.B., et al., "Development of embryonic stem cell lines from farm animals," <i>Biology of Reproduction</i> , supplement, Vol. 38 (1988).
	A71	Webel, S.K., et al., "Synchronous and asynchronous transfer of embryos in the pig," <i>J. Animal Science</i> , 30:565-568 (1970).
	A72	Wobus, A.M., et al., "Characterization of a Pluripotent Stem Cell Line Derived from a Mouse Embryo," <i>Exp. Cell Res.</i> , 152:212-219 (1984).
	A73	Wurst, W., et al., "Production of targeted embryonic stem cell clones," <i>Gene Targeting A Practical Approach</i> , p. 33, Joyner, A.L., ed., IRL Press (1993).
IM	A74	Yates, et al., <i>Nature</i> , 313:811-815 (1985).

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